

QY 2 QNWATFOCKHIINTPII-CNTIMDNIIYIVGQCKRVTTFISSATTVKAICTGVINMN 60

Db 23 QNATFOCKHINTPIT-CNTIMDNNTIYVGGCKRVTFIISATTVAICTGVIMNV 82
 OY 61 LSTTRFOLNCTRTSITPRCPYSSRTETNYICVKCENQYPVHFAGIGRC 111
 Db 83 LSTTRFOLNCTRTSITPRCPYSSRTETNYICVKCENQYPVHFAGIGRC 133

RESULT 2

098SMO PRELIMINARY: PRT: 133 AA.
 AC 098SMO;
 DT 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE RNase A-type ribonuclease rc208 precursor.
 OS Rana catesbeiana (bull frog).
 OC Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Ranidae; Rana.
 NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21539506; PubMed=11683320;
 RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;
 RT "Rapid diversification of RNase A superfamily ribonuclease from the
 bullfrog, Rana catesbeiana."
 RL J. Mol. Evol. 53:31-38(2001).
 DR EMBL: AF351209; AAK30255.1; -
 DR HSSP: P11916; IBC4
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; RNaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNase_PC; 1.
 DR PROSITE: PS00127; RNase_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL 1 22 POTENTIAL.
 SQ SEQUENCE 133 AA; 14628 MW; 87FCF12C3499E02 CRC64;
 Query Match 91.5%; Score 554.5; DB 13; Length 133;
 Best Local Similarity 93.7%; Pred. No. 5, 7e-57;
 Matches 104; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
 OY 2 QNATFOCKHINTPIT-CNTIMDNNTIYVGGCKRVTFIISATTVAICTGVIMNV 60
 Db 23 QNATFOCKHINTPIT-CNTIMDNNTIYVGGCKRVTFIISATTVAICTGVIMNV 82
 OY 61 LSTTRFOLNCTRTSITPRCPYSSRTETNYICVKCENQYPVHFAGIGRC 111
 Db 83 LSTTRFOLNCTRTSITPRCPYSSRTETNYICVKCENQYPVHFAGIGRC 133

RESULT 3

098SMO PRELIMINARY: PRT: 132 AA.
 AC 098SMO;
 DT 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE RNase A-type ribonuclease rc203 precursor (RC-RNase7 precursor).
 OS Rana catesbeiana (bull frog).
 OC Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Ranidae; Rana.
 NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21539506; PubMed=11683320;
 RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;
 RT "Rapid diversification of RNase A superfamily ribonuclease from the
 bullfrog, Rana catesbeiana."
 RL J. Mol. Evol. 53:31-38(2001).
 DR EMBL: AF351209; AAK30255.1; -
 DR HSSP: P11916; IBC4
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; RNaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNase_PC; 1.
 DR PROSITE: PS00127; RNase_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL 1 22 POTENTIAL.
 SQ SEQUENCE 133 AA; 14615 MW; C8785B236B26E54E CRC64;
 Query Match 78.0%; Score 472.5; DB 13; Length 133;
 Best Local Similarity 77.5%; Pred. No. 2, 1e-47;
 Matches 86; Conservative 11; Mismatches 13; Indels 1; Gaps 1;
 OY 2 QNATFOCKHINTPIT-CNTIMDNNTIYVGGCKRVTFIISATTVAICTGVIMNV 60
 Db 23 QNATFOCKHINTPIT-CNTIMDNNTIYVGGCKRVTFIISATTVAICTGVIMNV 82
 OY 61 LSTTRFOLNCTRTSITPRCPYSSRTETNYICVKCENQYPVHFAGIGRC 111
 Db 83 LSTTRFOLNCTRTSITPRCPYSSRTETNYICVKCENQYPVHFAGIGRC 133

RA Liao Y.-D., Tang P.-C., Jeng J.-T.;
 RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF351207; AAK30253.1; -
 DR EMBL: AF359578; AAL87036.1; -
 DR HSSP: P11916; IBC4
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; RNaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNase_PC; 1.
 DR PROSITE: PS00127; RNase_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL 1 22 POTENTIAL.
 FT CHAIN 23 132 RC-RNASE7.
 SQ SEQUENCE 132 AA; 14412 MW; 131A745187978687 CRC64;

Query Match 79.5%; Score 481.5; DB 13; Length 132;
 Best Local Similarity 82.7%; Pred. No. 1, 9e-46;
 Matches 91; Conservative 5; Mismatches 13; Indels 1; Gaps 1;

OY 2 QNATFOCKHINTPIT-CNTIMDNNTIYVGGCKRVTFIISATTVAICTGVIMNV 60
 Db 23 QNATFOCKHINTPIT-CNTIMDNNTIYVGGCKRVTFIISATTVAICTGVIMNV 82
 OY 61 LSTTRFOLNCTRTSITPRCPYSSRTETNYICVKCENQYPVHFAGIGRC 110
 Db 83 LSTTRFOLNCTRTSITPRCPYSSRTETNYICVKCENQYPVHFAGIGRC 132

RESULT 4

098SL9 PRELIMINARY: PRT: 133 AA.
 AC 098SL9;
 DT 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE RNase A-type ribonuclease rc212 precursor.
 OS Rana catesbeiana (bull frog).
 OC Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Ranidae; Rana.
 NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21539506; PubMed=11683320;
 RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;
 RT "Rapid diversification of RNase A superfamily ribonuclease from the
 bullfrog, Rana catesbeiana."
 RL J. Mol. Evol. 53:31-38(2001).
 DR EMBL: AF351210; AAK30256.1; -
 DR HSSP: P11916; IBC4
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; RNaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNase_PC; 1.
 DR PROSITE: PS00127; RNase_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL 1 22 POTENTIAL.
 SQ SEQUENCE 133 AA; 14615 MW; C8785B236B26E54E CRC64;

Query Match 78.0%; Score 472.5; DB 13; Length 133;
 Best Local Similarity 77.5%; Pred. No. 2, 1e-47;
 Matches 86; Conservative 11; Mismatches 13; Indels 1; Gaps 1;

OY 2 QNATFOCKHINTPIT-CNTIMDNNTIYVGGCKRVTFIISATTVAICTGVIMNV 60
 Db 23 QNATFOCKHINTPIT-CNTIMDNNTIYVGGCKRVTFIISATTVAICTGVIMNV 82
 OY 61 LSTTRFOLNCTRTSITPRCPYSSRTETNYICVKCENQYPVHFAGIGRC 111
 Db 83 LSTTRFOLNCTRTSITPRCPYSSRTETNYICVKCENQYPVHFAGIGRC 133

RESULT 5

098SL8

ID 098SL8 PRELIMINARY; PRT; 133 AA.

AC 098SL8; SEQUENCE FROM N.A.

DT 01-JUN-2001 (Tremblrel. 17, Created)

DT 01-JUN-2001 (Tremblrel. 17, Last sequence update)

DE 01-DEC-2001 (Tremblrel. 19, Last annotation update)

OS Rana catesbeiana (Bull frog).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.

NCBI_TaxID=8400;

RN 098SL8; SEQUENCE FROM N.A.

RP MEDLINE=21539306; PubMed=11683320;

RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;

RT "Rapid diversification of Rnase A superfamily ribonuclease from the bullfrog, Rana catesbeiana."

RL J. Mol. Evol. 53:31-38(2001).

DR EMBL; AF351211; AAC30257.1;

DR HSSP; P11916; IBC4;

DR InterPro: IPR001427; RNaseA.

DR Pfam: PF00074; RNaseA.1.

DR ProDom: PD000535; RNaseA.1.

DR SMART; SM00092; RNase_PC.1.

DR PROSITE; PS00127; RNASE_PANCREATIC; UNKNOWN_1.

KW Signal.

FT SIGNAL.

SO SEQUENCE 133 AA; 14590 MW; 8B40B9A94FA5B943 CRC64;

POTENTIAL.

Query Match 76.8%; Score 465.5; DB 13; Length 133;

Best Local Similarity 75.7%; Pred. No. 1.4e-46;

Matches 84; Conservative 13; Mismatches 13; Indels 1; Gaps 1;

QY 2 QNNAFTQOKHIIITPII-CNTIMDNNTIYVGCKRVTFFIISATTVAICGVINMV 60

DB 23 QNNAFTQOKHIIITPII-TSSINCSNLSYIVGGCKRVNFIASSATTVAICGVYDKV 82

QY 61 LSTTRFQOLNCTRTSTPRCPYSSRTETNYICVKCENQPVHPFAGIGRC 111

DB 83 LSTTRFQOLNCTRTSTPRCPYSSRTETNYICVKCENQPVHPFAGIGRC 133

RESULT 6

ID 098SM1 PRELIMINARY; PRT; 132 AA.

AC 098SM1; SEQUENCE FROM N.A.

DT 01-JUN-2001 (Tremblrel. 17, Created)

DT 01-JUN-2001 (Tremblrel. 17, Last sequence update)

DE 01-DEC-2001 (Tremblrel. 19, Last annotation update)

OS Rana catesbeiana (Bull frog).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.

NCBI_TaxID=8400;

RN 098SM1; SEQUENCE FROM N.A.

RP MEDLINE=21539306; PubMed=11683320;

RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;

RT "Rapid diversification of Rnase A superfamily ribonuclease from the bullfrog, Rana catesbeiana."

RL J. Mol. Evol. 53:31-38(2001).

DR EMBL; AF351208; AAC30254.1;

DR HSSP; P11916; IBC4;

DR InterPro: IPR001427; RNaseA.

DR Pfam: PF00074; RNaseA.1.

DR ProDom: PD000535; RNaseA.1.

DR SMART; SM00092; RNase_PC.1.

DR PROSITE; PS00127; RNASE_PANCREATIC; UNKNOWN_1.

KW Signal.

FT SIGNAL.

SO SEQUENCE 132 AA; 14704 MW; 95D61760F729868E CRC64;

POTENTIAL.

Query Match 73.0%; Score 442.5; DB 13; Length 132;

Best Local Similarity 77.3%; Pred. No. 6.6e-44;

Matches 85; Conservative 7; Mismatches 17; Indels 1; Gaps 1;

QY 2 QNNAFTQOKHIIITPII-CNTIMDNNTIYVGCKRVTFFIISATTVAICGVINMV 60

DB 23 QNNAFTQOKHIIITPII-TSSINCSNLSYIVGGCKRVNFIASSATTVAICGVYDKV 82

QY 61 LSTTRFQOLNCTRTSTPRCPYSSRTETNYICVKCENQPVHPFAGIGRC 110

DB 83 LSTTRFQOLNCTRTSTPRCPYSSRTETNYICVKCENQPVHPFAGIGRC 132

RESULT 7

ID 09DF78 PRELIMINARY; PRT; 132 AA.

AC 09DF78; SEQUENCE FROM N.A.

DT 01-MAR-2001 (Tremblrel. 16, Created)

DT 01-OCT-2001 (Tremblrel. 18, Last sequence update)

DE 01-DEC-2001 (Tremblrel. 19, Last annotation update)

OS Rana catesbeiana (Bull frog).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.

NCBI_TaxID=8400;

RN 09DF78; SEQUENCE FROM N.A.

RP MEDLINE=20512555; PubMed=11058105;

RA Liao Y.-D., Huang H.-C., Leu Y.-J., Wei C.-W., Tang P.-C., Wang S.-C.;

RT "Purification and cloning of cytotoxic ribonucleases from Rana catesbeiana (bullfrog)."

RL Nucleic Acids Res. 28:4097-4104(2000).

QY 2 QNNAFTQOKHIIITPII-CNTIMDNNTIYVGCKRVTFFIISATTVAICGVINMV 59

DB 22 QNNAFTQOKHIIITPII-TSSINCSNLSYIVGGCKRVNFIASSATTVAICGVYDKV 81

QY 60 VLTTRFQOLNCTRTSTPRCPYSSRTETNYICVKCENQPVHPFAGIGRC 110

DB 82 VLTTRFQOLNCTRTSTPRCPYSSRTETNYICVKCENQPVHPFAGIGRC 132

RESULT 8

ID 091B78 PRELIMINARY; PRT; 127 AA.

AC 091B78; SEQUENCE FROM N.A.

DT 01-OCT-2000 (Tremblrel. 15, Created)

DT 01-OCT-2000 (Tremblrel. 15, Last sequence update)

DE 01-DEC-2001 (Tremblrel. 19, Last annotation update)

OS Rana pipiens (Northern leopard frog).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.

NCBI_TaxID=8400;

RN 091B78; SEQUENCE FROM N.A.

RP MEDLINE=20512555; PubMed=11058105;

RA Liao Y.-D., Huang H.-C., Leu Y.-J., Wei C.-W., Tang P.-C., Wang S.-C.;

RT "Purification and cloning of cytotoxic ribonucleases from Rana catesbeiana (bullfrog)."

RL Nucleic Acids Res. 28:4097-4104(2000).

QY 2 QNNAFTQOKHIIITPII-CNTIMDNNTIYVGCKRVTFFIISATTVAICGVINMV 59

DB 22 QNNAFTQOKHIIITPII-TSSINCSNLSYIVGGCKRVNFIASSATTVAICGVYDKV 81

QY 60 VLTTRFQOLNCTRTSTPRCPYSSRTETNYICVKCENQPVHPFAGIGRC 110

DB 82 VLTTRFQOLNCTRTSTPRCPYSSRTETNYICVKCENQPVHPFAGIGRC 132

Query Match 61.1%; Score 370; DB 13; Length 132;

Best Local Similarity 64.9%; Pred. No. 1.9e-35;

Matches 72; Conservative 9; Mismatches 28; Indels 2; Gaps 2;

[illegible]

RP SEQUENCE FROM N.A.
PC MISCELLANEOUS.

RC TISSUE=LIVER;

RESULT 13

RA Kinoshita N., Kirschner M.W.;

